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Amendments To The Claims (In The Revised Format)

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) In an optical fibre lasing system including a laser system interconnected with an optical waveguide, a A method of reducing the feedback effects from Rayleigh backscattering in an optical fibre lasing system including a laser system interconnected with an optical waveguide, comprising the step of:

subjecting portions of said optical waveguide to <u>a continuous</u> low frequency mechanical vibration oscillation so as to reduce feedback from Rayleigh backscattering of said optical waveguide.

- (cancelled).
- 3. (currently amended) A method as claimed in elaim 2 claim 1 wherein said low frequency is in the range of 300Hz to 1200Hz.
- 4. (currently amended) A method as claimed in elaim 2 claim 1 wherein said low frequency is in the range of 300Hz to 40KHz.
- 5. (original) A method as claimed in claim 1 wherein said optical waveguide comprises an optical fibre.
- 6. (currently amended) A method as claimed in claim 1 wherein said mechanical vibration

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of said optical waveguide occurs substantially adjacent is adjacent to the interconnection with said laser system.

7. (original) An optical communications system comprising:

a laser source;

an optical waveguide interconnected to said laser source to carry an optical signal from said source to an optical receiver;

an optical receiver interconnected to said optical waveguide for decoding said signal;

a mechanical modulator adapted to substantially continuously mechanically perturb a portion of said optical waveguide so as to reduce Rayleigh backscattering from said optical waveguide.

- 8. (original) An optical communications system as claimed in claim 7 wherein said mechanical modulator comprises a mechanical oscillator.
- 9. (original) An optical communications system as claimed in claim 8 wherein said mechanical oscillator oscillates at a frequency in the range of 300Hz to 40Khz.
- 10. (original) An optical communications system as claimed in claim 8 wherein said mechanical oscillator oscillates at a frequency in the range of 300Hz to 2500Hz.
- 11. (previously presented) An optical communications system as claimed in claim 7 wherein said mechanical modulator is in contact with said optical waveguide.
- 12. (currently amended) An optical communications system as claimed in claim 7 herein

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wherein said mechanical modulator emits an audio signal in the presence of said optical waveguide.

- 13. (currently amended) An optical communications system as claimed in claim 7 herein wherein said mechanical modulator interacts with an initial portion of said optical waveguide substantially adjacent said interconnection with said laser.
- 14. (original) An optical communications system as claimed in claim 7 wherein said optical waveguide comprises an optical fibre and further includes a portion of an optical fibre having an offset core and said mechanical modulator perturbs said portion.
- 15. (original) An optical communications system as claimed in claim 14 wherein said portion is bent into a coil.
- 16. (cancelled)
- 17. (new) A method of reducing the feedback effects from Rayleigh backscattering in an optical fibre lasing system including a laser system interconnected with an optical waveguide, comprising the step of:

subjecting portions of said optical waveguide to mechanical vibration in the frequency range 300Hz to 40KHz so as to reduce feedback from Rayleigh backscattering of said optical waveguide.

18. (new) A method as claimed in claim 17 wherein said low frequency mechanical vibration comprises a continuous oscillation.

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- 19. (new) A method as claimed in claim 17 wherein said mechanical vibration is in the frequency range of 300Hz to 1200Hz.
- 20 (new) A method as claimed in claim 17 wherein said optical waveguide comprises an optical fibre.
- 21 (new) A method as claimed in claim 17 wherein said mechanical vibration of said optical waveguide occurs substantially adjacent to the interconnection with said laser system.